

Service
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Service Manual

For repair information of the cassette mechanism
see Service Manual of Recorders tape deck RDN-2

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(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(I)

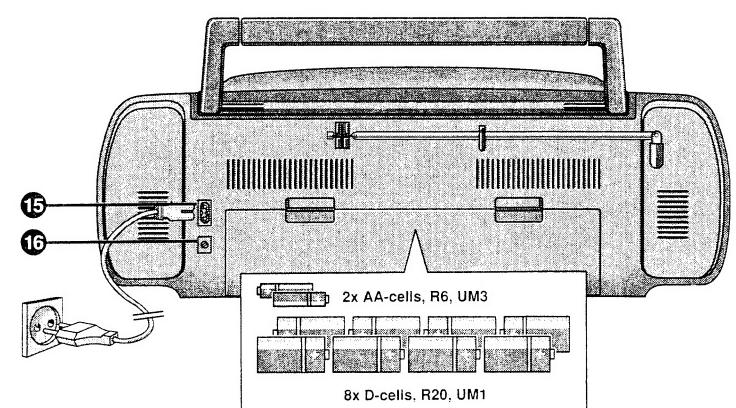
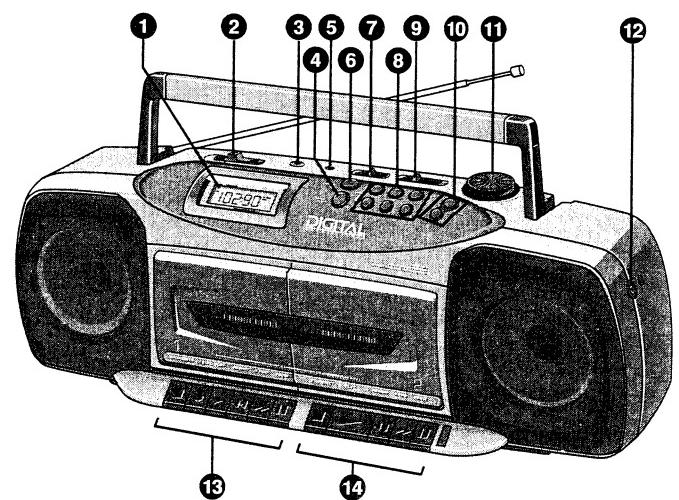
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.



1	Display	A140	9	DBB selector	3512
2	FM/AM	A101	10	Tuning up	A160
3	Mic		11	Tuning down	A161
4	Mono/Stereo	A164	12	Volume control	3542
5	Power indicator	6346	13	Headphone	1251
6	Program memo	A165	14	Tape control A	
7	Mode switch	1551	15	Tape control B	
8	Preset selector	A162,A163	16	AC mains socket	1253
		A166,A167		Not applicable	
		A168,A169			



ADJUSTMENT	CASSETTE	SK...	Recorder position DECK I	DECK II	MEASURE ON	READ ON	ADJUST WITH	ADJUST TO
Azimuth	10KHz SBC 420*	Cass.	Play	-	1251	mV-meter	Left hand Screw Play head	Max. L = R
		Cass.	-	Play	1251	mV-meter	Left hand Screw R/P Head	
Motor speed (Normal)	3150Hz SBC 420*	Cass.	Play	-	1251	Wow and Flutter meter	preset in motor	** a
		Cass.	-	Play	1251	Wow and Flutter meter	-	
Motor speed (high)	3150Hz SBC 420*	Cass. HSD	Record	Play	1251	Frequency counter	-	6.0KHz ± 0.3KHz

* SBC 420 : 4822 397 30071

** a The maximum permissible speed deviation is 2%.
Moreover, the wow and flutter value can be read.
This value should not exceed 0.35%.

SPECIFICATIONS

GENERAL

Mains voltage : 120V - 220V - 240V
 Mains setting/selection : Serviceable
 set at 220V for -00
 set at 240V for -05
 Mains frequency : 50Hz - 60Hz
 Battery : 12V (R20 x 8)
 Backup battery : 3V (R6 x 2)
 Power consumption : 16W max.
 Dimension (W x D x H) : 520 x 175 x 147 mm
 Weight : 3.13kg

TUNER : FM SECTION

Tuning range : 87.5MHz - 108MHz
 Intermediate Frequency : 10.7MHz
 Sensitivity : <6µV 26dB S/N
 Selectivity at 600kHz bandwidth : >20dB
 IF rejection : >50dB
 Image rejection : >20dB

TUNER : AM SECTION

Tuning range SW : 5.82MHz - 18.2MHz
 MW : 522kHz - 1611kHz
 LW : 148kHz - 284kHz
 Intermediate Frequency : 450kHz
 Sensitivity SW : <400µV 26dB S/N
 MW : <3.0mV/M 26dB S/N
 LW : <4.5mV/M 26dB S/N
 Selectivity at 18kHz bandwidth SW : >16dB
 MW : >16dB
 LW : >20dB
 IF rejection : >30dB
 Image rejection SW : >6dB
 MW : >28dB
 LW : >30dB

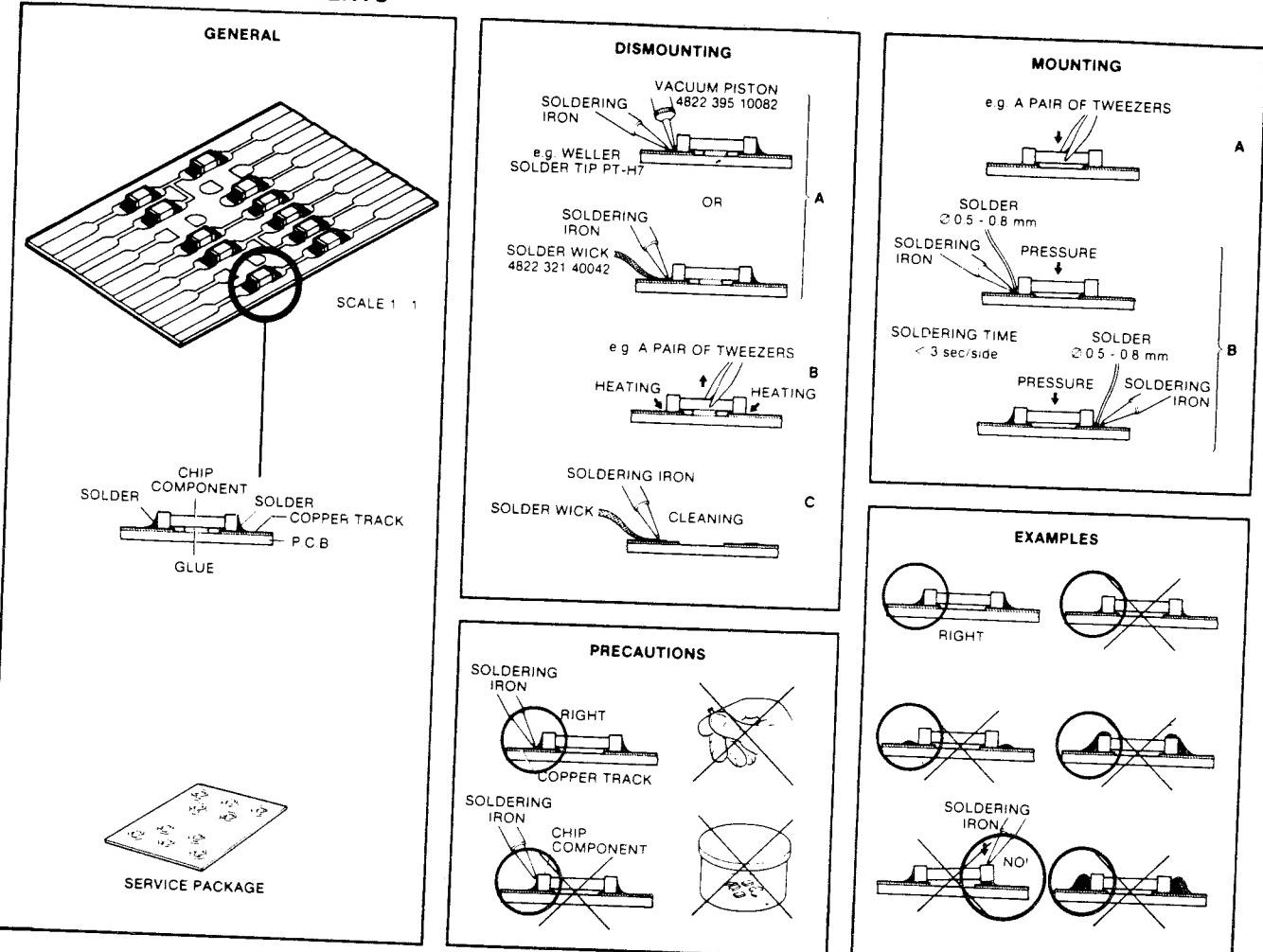
AMPLIFIER

Output power (D = 10%) : 2 x 1.5W -1dB (Mains)
 2 x 2W -1dB (Battery)
 Speaker impedance : 2 x 8Ω
 Frequency response (within 3dB) : 250Hz - 8kHz
 DBB slider : +6dB at 200Hz
 Headphone output : 15mW at 32Ω

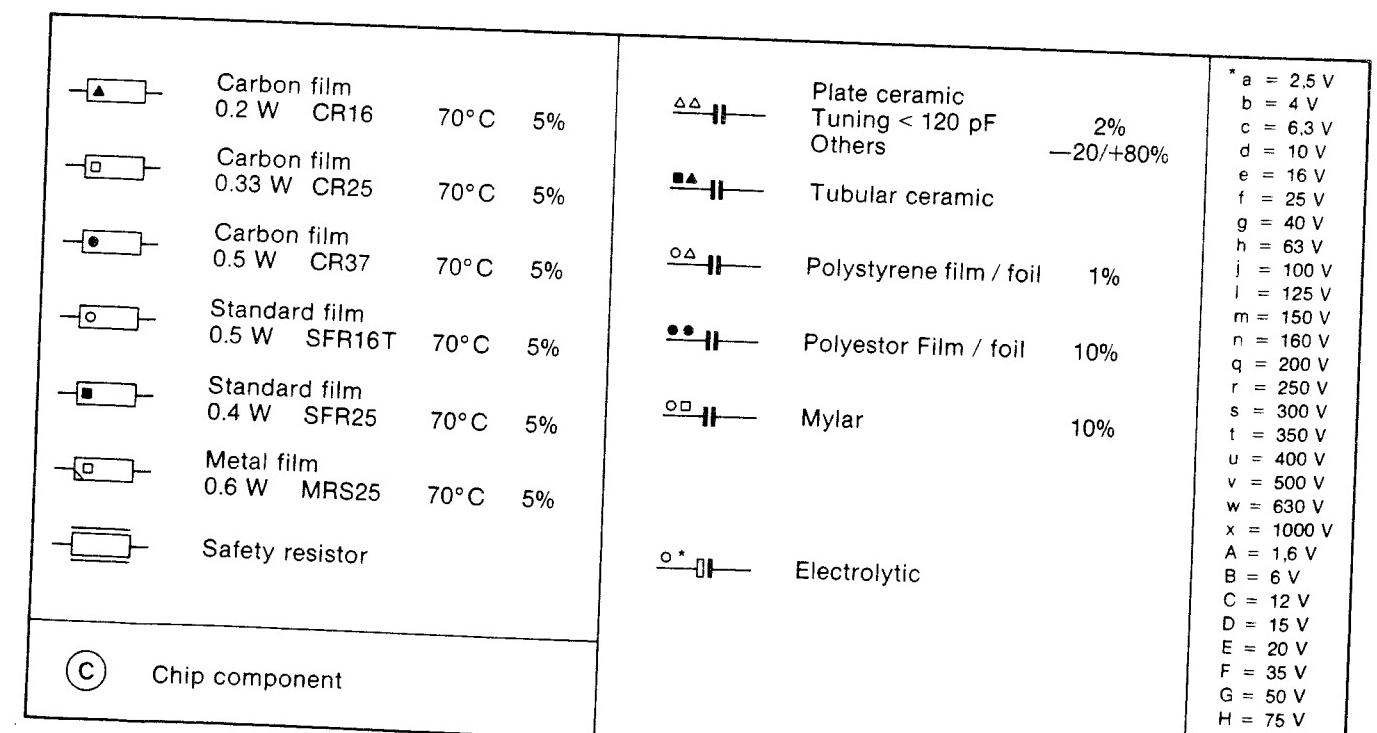
CASSETTE RECORDER

Number of tracks : 2 x 2 stereo
 Tape speed : 4.76 cm/sec ± 2%
 2 x 4.76 cm/sec
 Wow and flutter : <0.35%
 Fast-wind time C60 : 130 sec
 Bias system : 70kHz ± 15kHz (FM)
 DC bias (AM)
 Rec playback frequency response (within 8dB) : 250Hz - 4kHz (AM)
 250Hz - 6.3kHz (others)
 250Hz - 5kHz (HS dubbing)
 Signal to Noise ratio : >40dB (FM)
 >22dB (AM)
 >37dB (Dubbing)

HANDLING CHIP COMPONENTS



27 012C12



26338

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD**F** ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

GB

Because, generally speaking, MOS IC's are very sensitive to overload and too high voltages, measurements should be carried out with greatest possible care. For further instructions, see the directions enclosed in the separate IC-packages.

F

Parce qu'en général, les IC MOS sont très sensibles à la surcharge et à des tensions trop élevées, il faudra procéder aux mesures avec le plus grand soin. Pour plus de détails, voir les instructions accompagnant l'emballage des IC.

I

Dato che gli IC MOS sono molto sensibili alla sovraccarica e alle tensioni troppo alte, occorrerà procedere alle misure con particolare cautela. Per alti particolari riferirsi alla istruzioni comprese nell'imballaggio di ogni IC.

NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

I AVVERTIMENTO

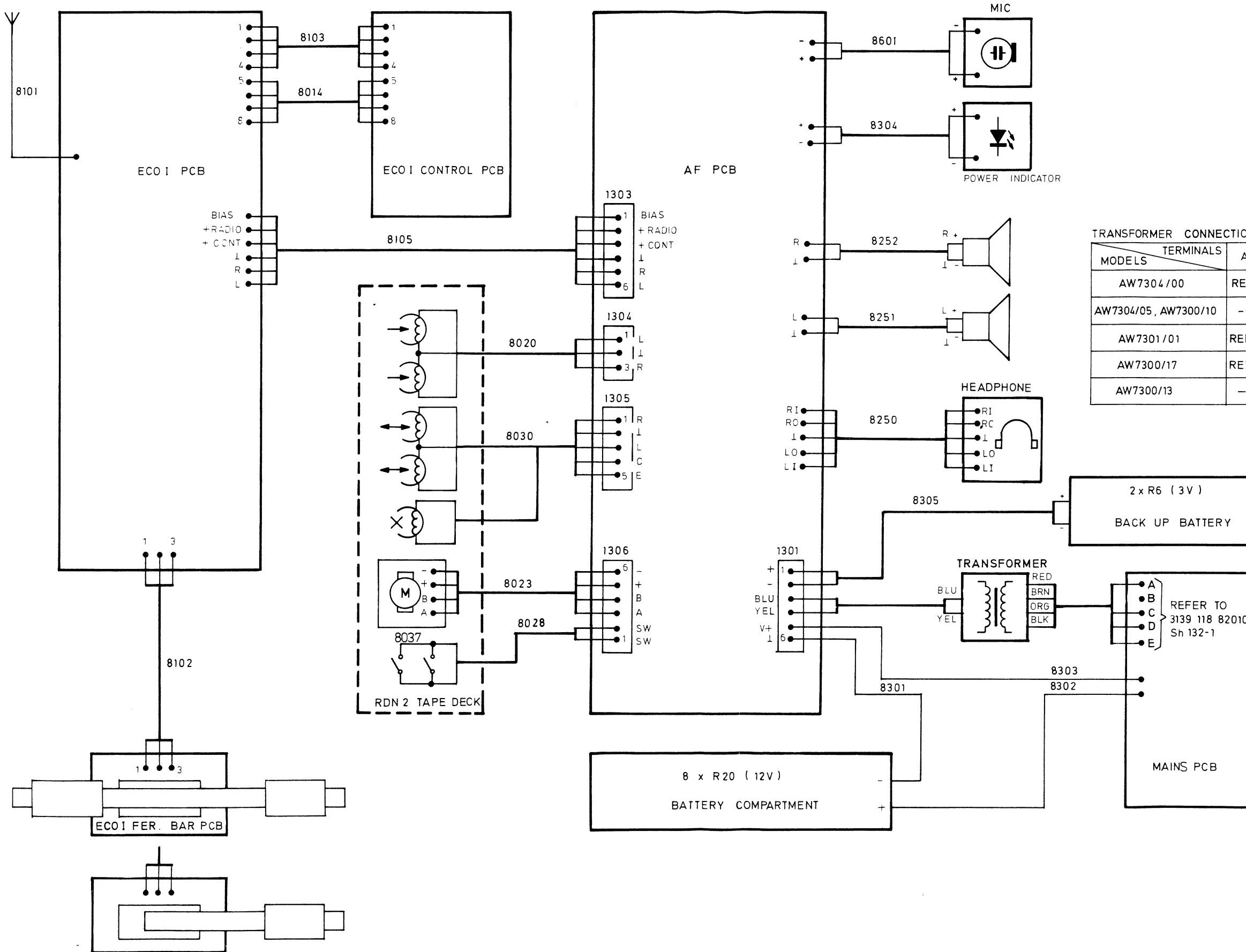
Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

NL

Omdat MOS IC's in het algemeen zeer gevoelig zijn voor overbelasting en te hoge spanning dient bij het meten de grootst mogelijke zorgvuldigheid in acht genomen te worden. Zie voor verdere instructies de binnensluiting in de verpakking van de IC's.

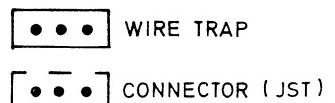
D

Da MOS IC's im allgemeinen sehr empfindlich gegen Überbelastung und zu hohe Spannung sind, muss man beim Messen äusserst vorsichtig vorgehen. Für weitere Weisungen siehe den beigefügten Zettel in der Verpackung der IC's.



TRANSFORMER CONNECTION.					
MODELS	TERMINALS				
	A	B	C	D	E
AW7304/00	RED	-	ORN	BLK	BRN
AW7304/05 , AW7300/10	-	BRN	ORN	BLK	RED
AW7301/01	RED	BRN	ORN	BLK	-
AW7300/17	RED	BRN	-	BLK	ORN
AW7300/13	-	BRN	ORN	BLK	-

LEGEND



SK...	FREQUENCY	I/P	DISPLAY	ADJUST	O/P	SCOPE/METER
Varicap alignment						
FM 87.5-108MHz			108MHz 87.5MHz	5106 check	1	8.5V 2.05V ± 0.15V
SW 5.82-18.2MHz			18.2MHz 5.82MHz	5107 check		9.0V 2.10V ± 0.15V
LW 148-284kHz			284kHz 148kHz	5108 check		9.0V 2.00V ± 0.15V
MW 522-1611kHz			1611kHz 522kHz	2117 check		9.0V 2.05V ± 0.15V
AM-IF						
	450kHz * via 100nF	A		5111 5112 5114	2	max.
RF alignment						
FM	108MHz # 87.5MHz #	B	108MHz 87.5MHz	2108 5105	2	max.
SW	6.2MHz *		6.2MHz	5102		
MW	558kHz * 1494kHz *	C	558kHz 1494kHz	5103 2118		
LW	200kHz *		200kHz	5104		
Stereo decoder						
FM	98MHz carrier 1mV	B	98MHz	3147	3	76 ± 0.2kHz

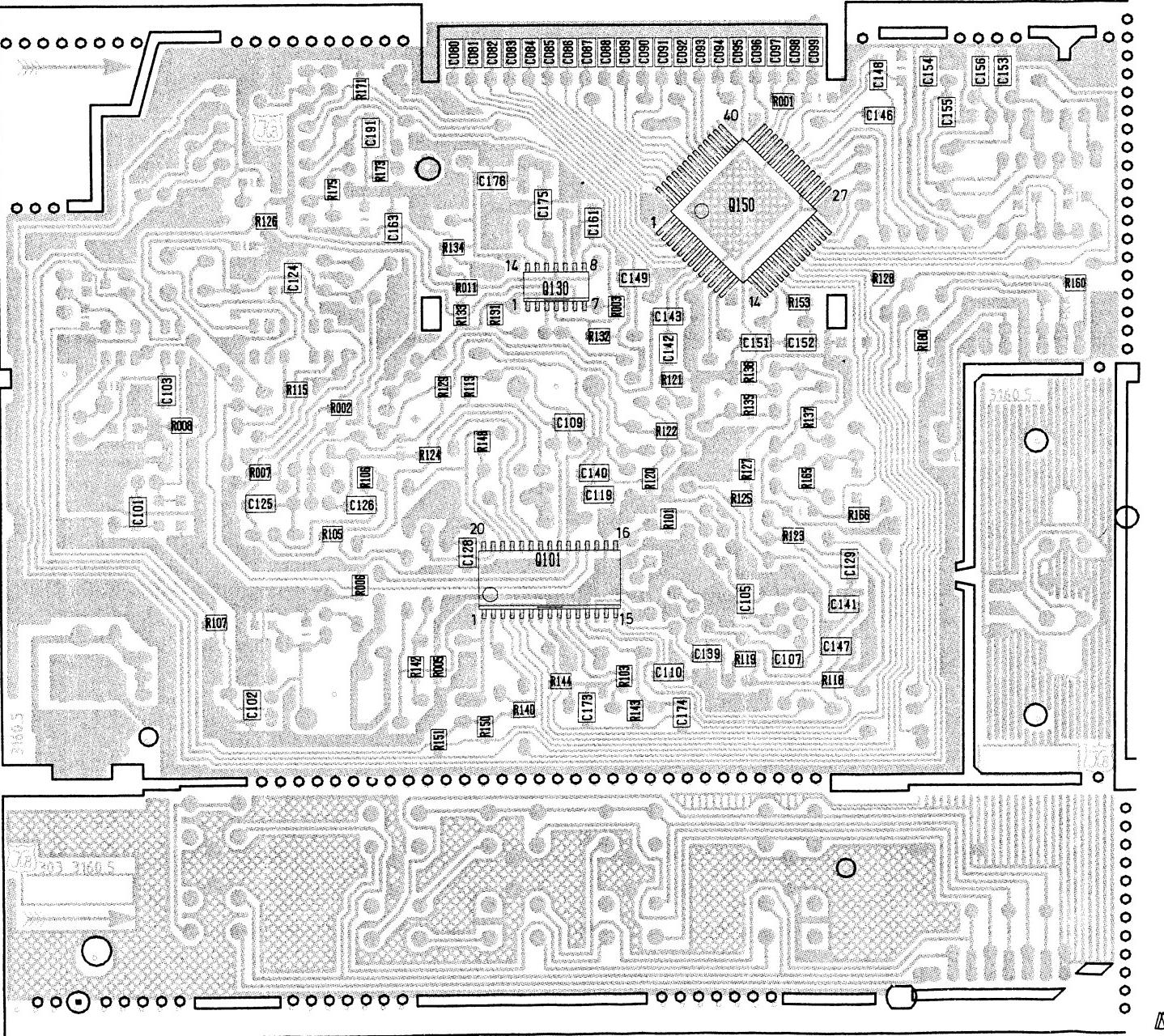
* Mod 1kHz 30% AM

Mod 1kHz $\Delta f = 22.5\text{kHz}$

Repeat

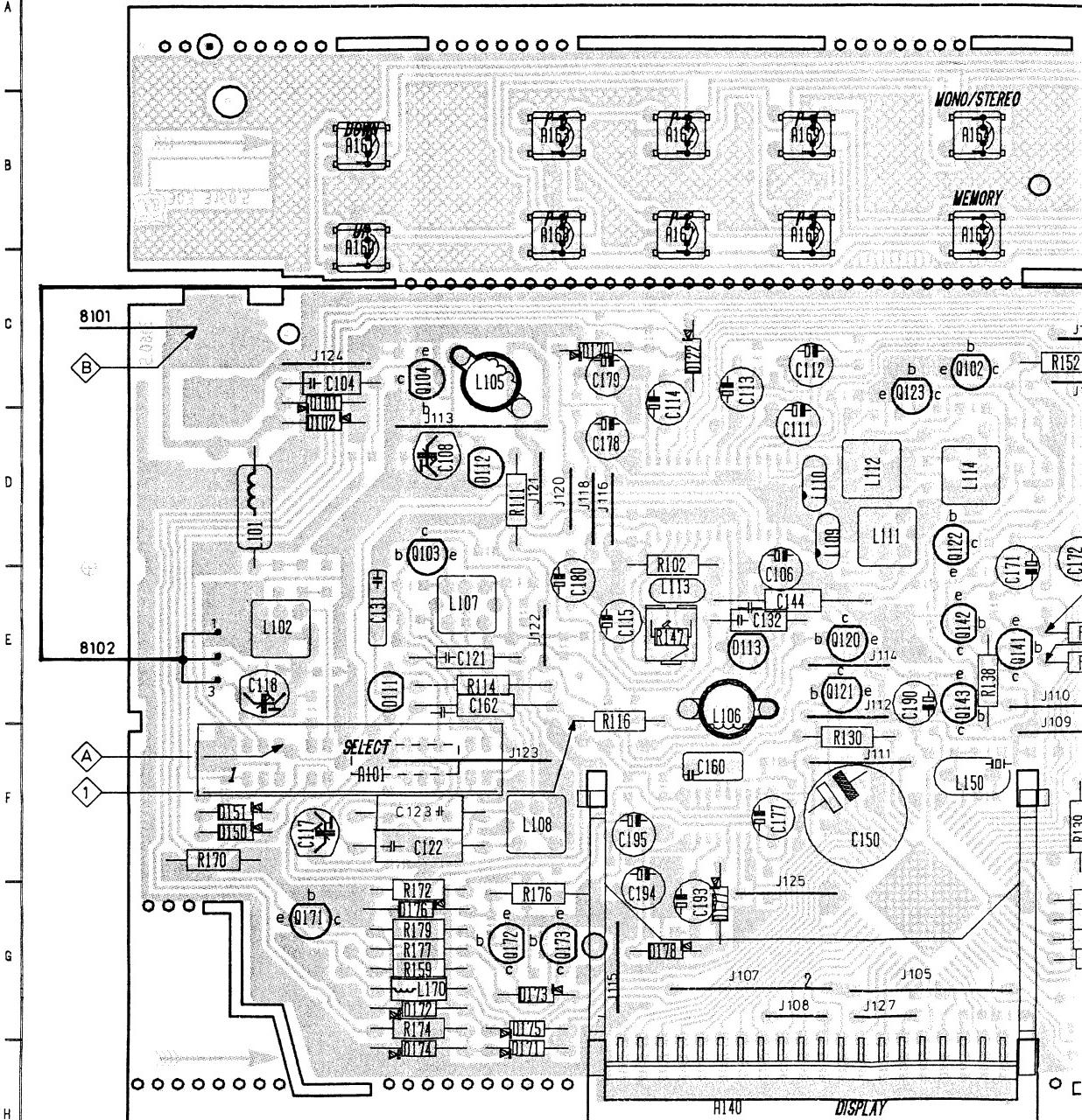
C080	A 4	C089	A 5	C098	A 7	C119	D 5	C142	C 6	C154	A 7	C191	B 4	R007	D 3	R115	D 3	R126	B 3	R136	C 6	R153	C 7
C081	A 4	C090	A 6	C099	A 7	C124	C 3	C143	C 6	C155	B 8	Q101	E 5	R008	D 2	R118	F 7	R127	D 6	R137	D 7	R160	C 8
C082	A 4	C091	A 6	C101	D 2	C125	D 3	C146	B 7	C156	A 8	Q130	C 5	R011	C 4	R119	E 6	R128	C 7	R140	F 5	R165	D 7
C083	A 5	C092	A 6	C102	F 3	C126	D 4	C147	E 7	C161	B 5	Q150	B 6	R101	D 6	R120	D 6	R129	D 4	R142	E 4	R166	D 7
C084	A 5	C093	A 6	C103	D 2	C128	E 4	C148	A 7	C163	B 4	R001	B 6	R103	F 5	R121	D 6	R131	C 5	R143	F 5	R171	B 4
C085	A 5	C094	A 6	C105	E 6	C129	E 7	C149	C 5	C173	F 5	R002	D 3	R105	E 3	R122	D 6	R132	C 5	R144	F 5	R173	B 4
C086	A 5	C095	A 6	C107	E 6	C139	E 6	C151	C 6	C174	F 6	R003	C 5	R106	D 4	R123	E 7	R133	C 4	R148	D 4	R175	B 3
C087	A 5	C096	A 6	C109	D 5	C140	D 5	C152	C 7	C175	B 5	R005	E 4	R107	E 3	R124	D 4	R134	C 4	R150	F 4	R180	C 7
C088	A 5	C097	A 6	C110	F 6	C141	E 7	C153	A 8	C176	B 5	R006	E 4	R113	D 4	R125	D 6	R135	F 4	R151	F 4		

1 2 3 4 5 6 7 8 9

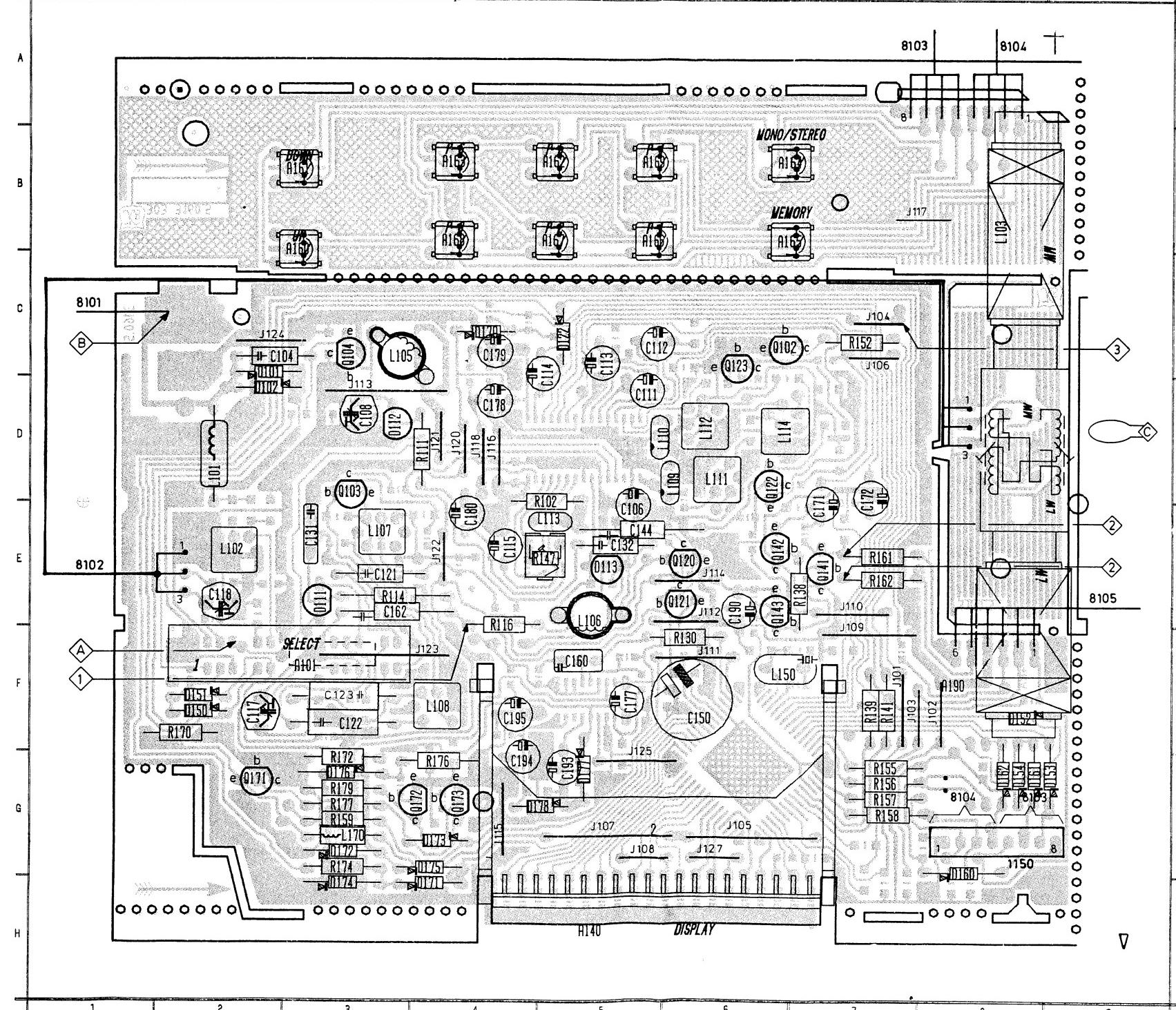
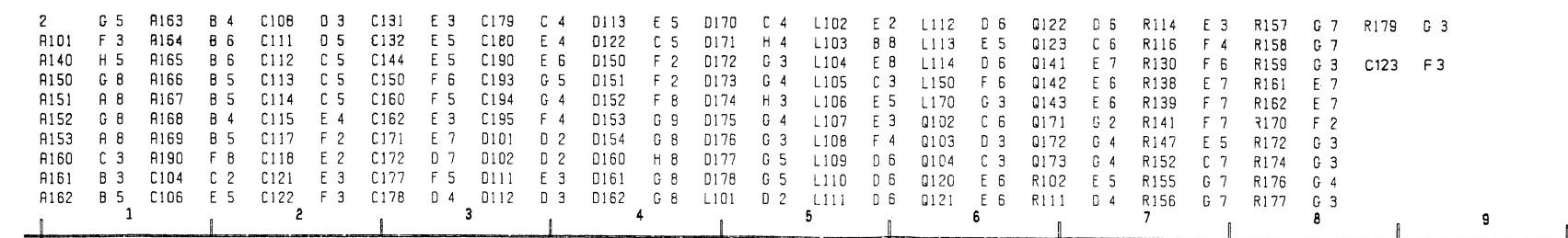
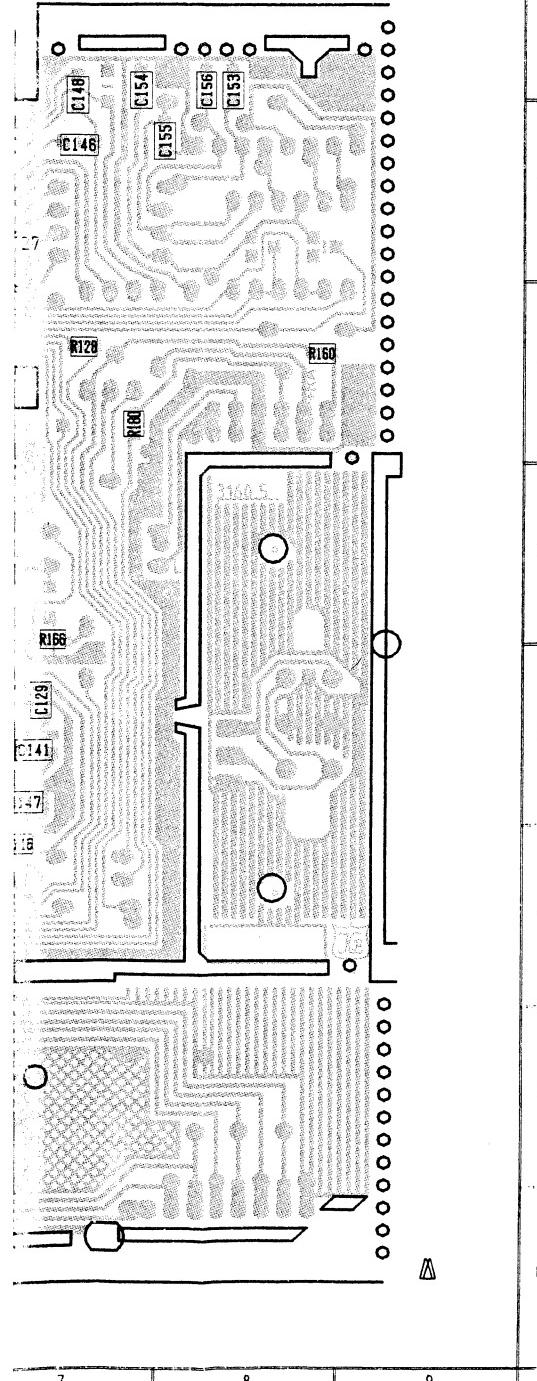


C080	A 4	C089	A 5	C098	A 7	C119	D 5	C142	C 6	C154	A 7	C191	B 4	R007	D 3	R115	D 3	R126	B 3	R136	C 6	R153	C 7
C081	A 4	C090	A 6	C099	A 7	C124	C 3	C143	C 6	C155	B 8	Q101	E 5	R008	D 2	R118	F 7	R127	D 6	R137	D 7	R160	C 8
C082	A 4	C091	A 6	C101	D 2	C125	D 3	C146	B 7	C156	A 8	Q130	C 5	R011	C 4	R119	E 6	R128	C 7	R140	F 5	R165	D 7
C083	A 5	C092	A 6	C102	F 3	C126	D 4	C147	E 7	C161	B 5	Q150	B 6	R101	D 6	R120	D 6	R129	D 4	R142	E 4	R166	D 7
C084	A 5	C093	A 6	C103	D 2	C128	E 4	C148	A 7	C163	B 4	R001	B 6	R103	F 5	R121	D 6	R131	C 5	R143	F 5	R171	B 4
C085	A 5	C094	A 6	C105	E 6	C129	E 7	C149	C 5	C173	F 5	R002	D 3	R105	E 3	R122	D 6	R132	C 5	R144	F 5	R173	B 4
C086	A 5	C095	A 6	C107	E 6	C139	E 6	C151	C 6	C174	F 6	R003	C 5	R106	D 4	R123	E 7	R133	C 4	R148	D 4	R175	B 3
C087	A 5	C096	A 6	C109	D 5	C140	D 5	C152	C 7	C175	B 5	R005	E 4	R107	E 3	R124	D 4	R134	C 4	R150	F 4	R180	C 7
C088	A 5	C097	A 6	C110	F 6	C141	E 7	C153	A 8	C176	B 5	R006	E 4	R113	D 4	R125	D 6	R135	F 4	R151	F 4		

1 2 3 4 5 6 7



R136	C 6	R153	C 7
R137	D 7	R160	C 8
R140	F 5	R165	D 7
R142	E 4	R166	D 7
R143	F 5	R171	B 4
R144	F 5	R173	B 4
R148	D 4	R175	B 3
R150	F 4	R180	C 7
R151	F 4		



ITEM NUMBERING CONVERSION :-

REPLACE	Axxx	BY	1xxx
	Cxxx	BY	2xxx
	Dxxx	BY	6xxx
	Lxxx	BY	5xxx
	Qxxx	BY	7xxx
	Rxxx	BY	3xxx
	Jxxx	BY	9xxx

+Cont : 5.7V
+Radio : 12V

7116

		FM	AM
1	:	1.0V	1.0V
2	:	1.3V	1.3V
3	:	1.0V	1.0V
4	:	3.6V	3.6V
5	:	0.9V	1.0V
6	:	0.9V	1.0V
7	:	5.2V	5.2V
8	:	3.5V	3.5V
9	:	1.4V	1.2V
10	:	1.1V	1.3V
11	:	0V	0V
12	:	0V	0V
13	:	1.3V	0V
14	:	0V	0V
15	:	1.3V	0V
16	:	0.8V	0.2V
17	:	0V	0V
18	:	0.3V	0V
19	:	1.2V	1.2V
20	:	1.2V	1.2V
21	:	1.2V	1.2V
22	:	1.2V	1.2V
23	:	1.2V	1.2V
24	:	0V	1.2V
25	:	0.7V	0V
26	:	3.0V	3.5V
27	:	1.4V	1.4V
28	:	1.6V	1.6V
29	:	1.0V	1.0V
30	:	0V	0V

Q104

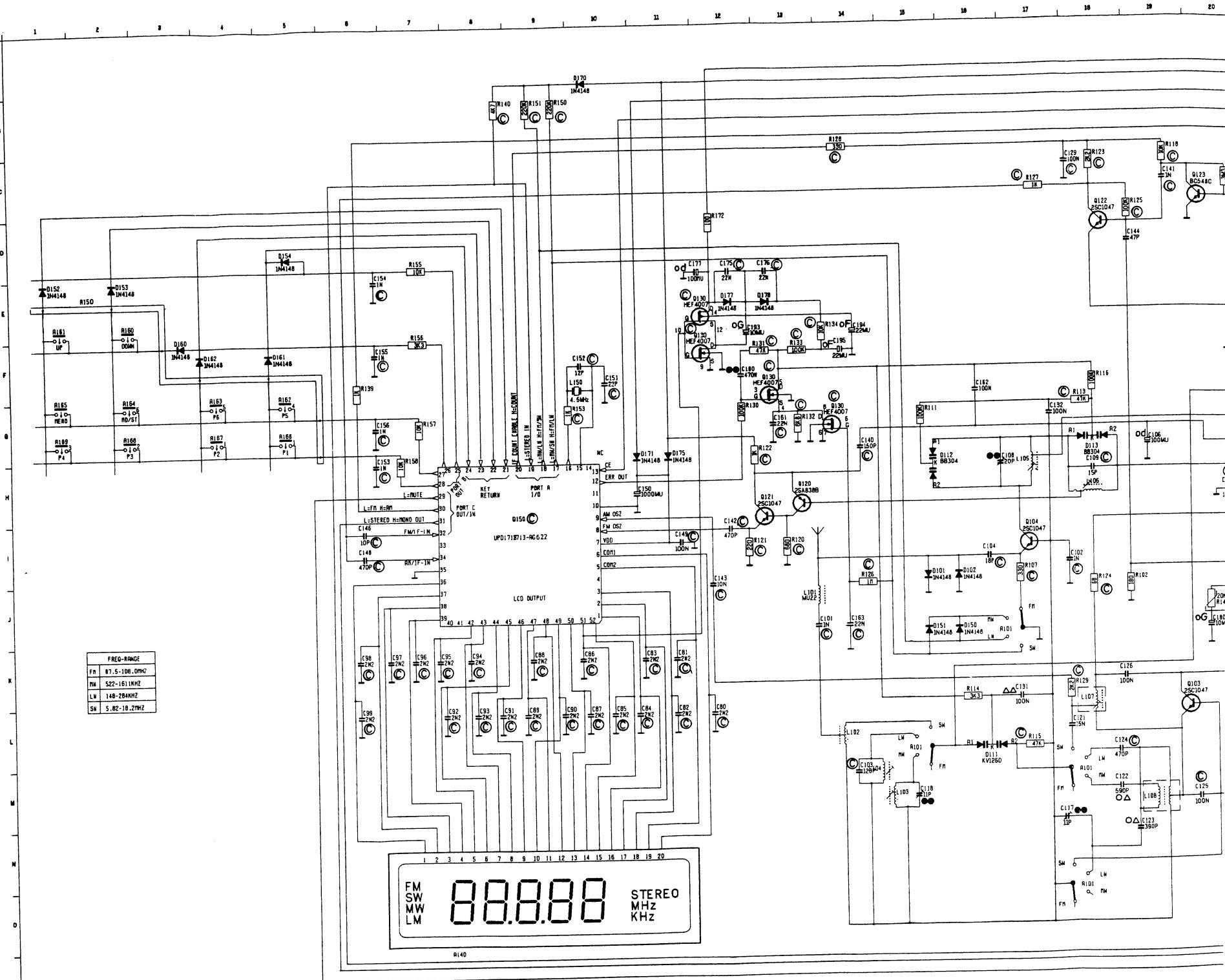
e : 0.5V	e : 2.0V
b : 1.2V	b : 1.2V
c : 1.2V	c : 1.1V
Q121	Q171
e : 0.4V	e : 12V.
b : 1.1V	b : 11.2V
c : 2.0V	c : 6.0V
Q172	Q173
e : 0V	e : 0V
b : 0.5V	b : 0.5V
c : 0.5V	c : 10.3V

Q120

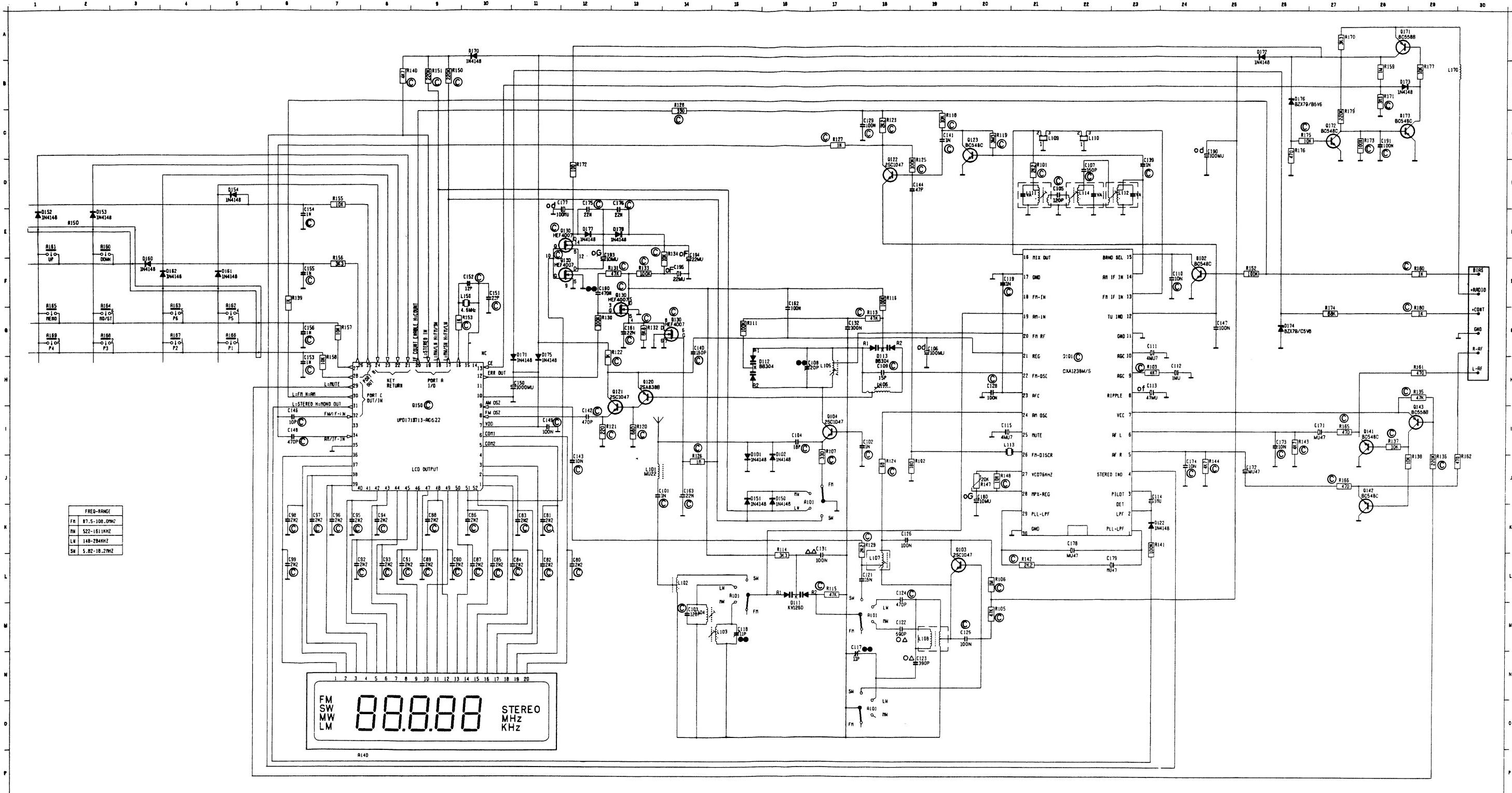
e : 2.0V
b : 1.2V
c : 1.1V

Q171

e : 12V.
b : 11.2V
c : 6.0V

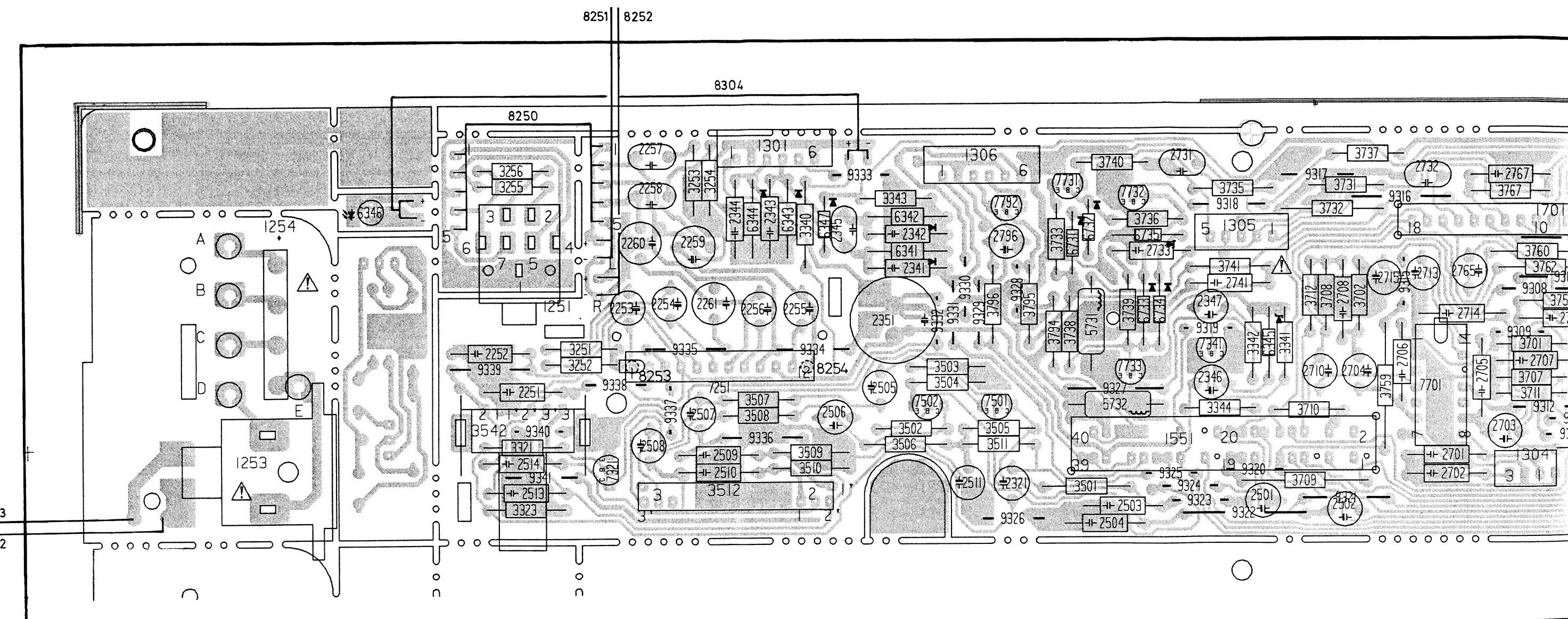


	1	2	3	4	5	6	7	8	9	10	11	12	ITEM NUMBERING	CONVERSION :-	NOTES	
													REPLACED	XXXX BY 1XXX	UNLESS SPECIFIED	
1	J17	C114	J23	C156	G 6	C91	L 8	Q178	E13	Q143	I29	R133	F13	R173	C28	ARE E
2	L15	C115	I20	C160	F12	C92	L 7	L101	J14	Q150	H 8	R134	E14	R174	D27	ARE T
3	M18	C116	H17	C161	G13	C93	L 8	L102	L14	Q171	R28	R135	I28	R175	C26	ARE C
4	P 8	C118	M15	C162	F16	C94	K 8	C103	S 5	Q172	C27	R136	J29	R176	C26	DXXX BY 6XXX
5	E 2	C119	F20	C163	J14	C95	M 7	L104	N15	Q173	C28	R137	I28	R177	B29	LXXX BY 5XXX
6	O 2	C121	L17	C171	I27	C96	K 7	L105	M17	R101	D21	R138	J29	R178	C27	OXXX BY 7XXX
7	E 2	C122	M18	C172	J25	C97	K 7	L106	M18	R102	J19	R139	F 6	R180	G29	RXXX BY 3XXX
8	C 1	C123	I19	C173	I26	C98	K 6	L107	L18	R103	H23	R140	I 9			
9	F 5	C124	L18	C174	J24	C99	L 6	L108	M19	R104	K20	R141	K23			
10	F 4	C125	M20	C175	D12	C100	I15	L109	C21	R105	L20	R142	L21			
11	F 2	C126	K18	C176	D13	C101	I15	L110	C22	R106	L20	R143	J26			
12	F 1	C127	H20	C177	I17	C102	I15	L111	D21	R107	I17	R144	J26			
13	G 1	C131	K17	C178	K22	C103	I16	L112	D23	R111	O15	R145	J20			
14	G 2	C132	G17	C179	L23	C104	I16	L113	G18	R113	G18	R146	J20			
15	G 4	C133	M17	C180	J20	C105	I16	L114	H20	R114	N16	R147	J20			
16	G 5	C134	D23	C181	C24	C106	I16	L115	I17	R115	L17	R148	B 9			
17	G 6	C135	C24	C182	C26	C107	I16	L116	F 9	R116	F18	R149	B 9			
18	G 7	C140	C14	C183	C26	C108	I15	L117	B30	R118	C19	R150	F25			
19	G 8	C141	C19	C184	C26	C109	I15	L118	B30	R119	C20	R151	G 9			
20	G 9	C142	C19	C185	E 12	C110	E 1	R101	D21	R120	F 9	R152	D 7			
21	H 13	C143	J12	C186	E 14	C111	E 2	R102	I12	R121	I12	R153	F 7			
22	H 17	C144	D18	C187	E 12	C112	F 3	R103	I17	R122	G12	R154	G 7			
23	H 14	C145	I 6	C188	E 11	C113	H 5	R104	H13	R123	C18	R155	H 7			
24	H 15	C146	I 6	C189	E 11	C114	F 4	R105	H13	R124	J18	R156	I28			
25	H 21	C147	G25	C190	E 11	C115	H 5	R106	I17	R125	D18	R157	F28			
26	H 16	C148	I 6	C191	E 11	C116	F 4	R107	I17	R126	D19	R158	I28			
27	H 22	C149	I 11	C192	E 11	C117	I10	R108	I17	R127	E12	R159	J14			
28	H 16	C150	H10	C193	E 10	C118	I10	R109	I17	R128	J14	R160	J30			
29	H 18	C151	H10	C194	E 10	C119	I10	R101	I17	R129	K18	R161	H29			
30	H 24	C152	F10	C195	E 10	C120	I17	R102	I17	R130	K18	R162	R27			
31	H 23	C153	H 6	C196	K 9	C121	I17	R103	I17	R131	F13	R163	B28			
32	H 24	C154	E 6	C197	L 9	C122	E 6	R104	I17	R132	F13	R164	B28			
33	H 23	C155	F 6	C198	L 9	C123	E 6	R105	I17	R133	G13	R165	D12			



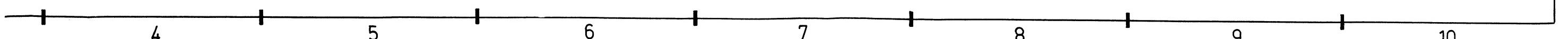
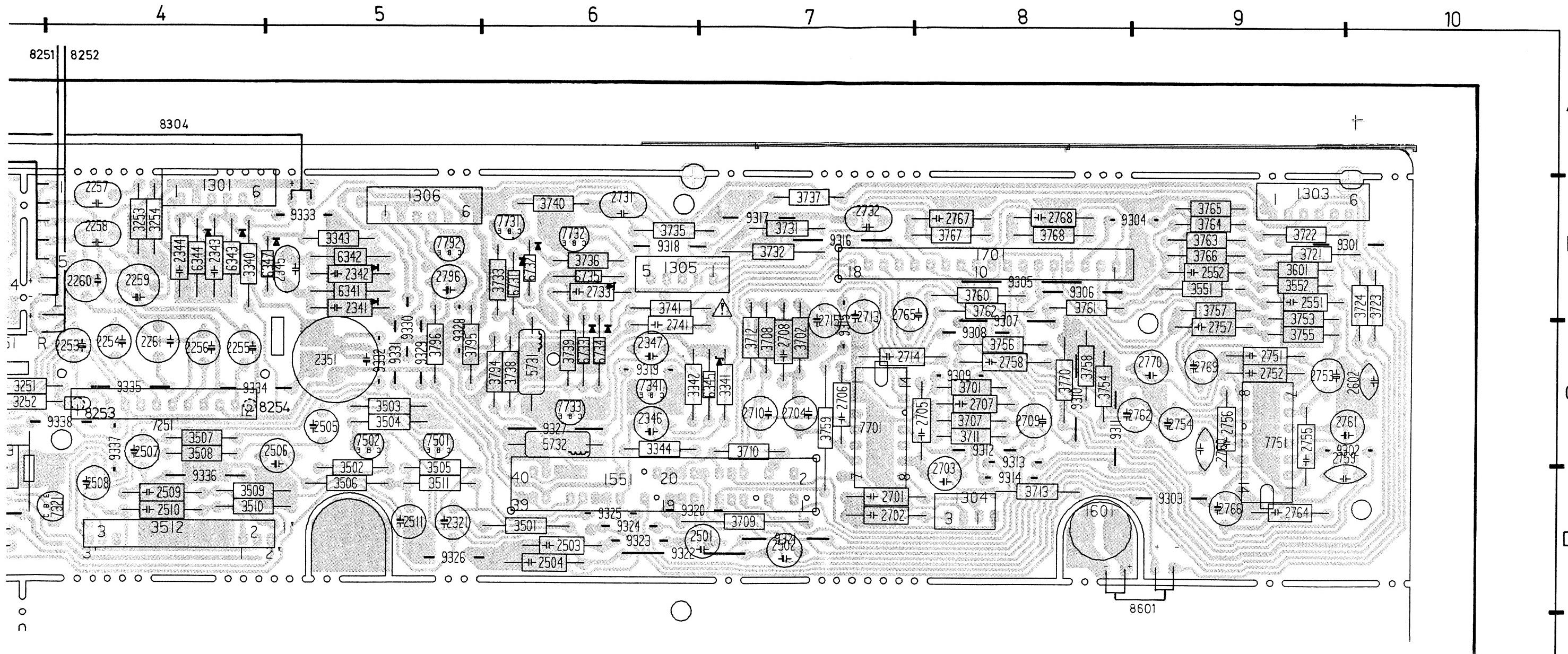
1251	C3	1601	D8	2258	B4	2345	B5	2506	C5	2552	B9	2708	C7	2741	C6	2759	C9	2769	C9	3321	D3	3503	C5	3512	D4	3709	D7	3731	B7	3741	B6	3761	B8	3794	C6	6345	C7	7321	D4	7792
1253	D2	1701	B8	2259	B4	2346	C6	2507	C4	2602	C10	2709	C8	2751	C9	2760	C9	2770	C9	3323	D3	3504	C5	3542	D3	3710	C7	3732	B7	3753	B9	3762	B8	3795	C5	6346	B2	7341	C6	8250
1254	B2	2251	C3	2260	B4	2347	C6	2508	D4	2701	D7	2710	C7	2752	C9	2761	C9	2796	B5	3340	B4	3505	D5	3551	B9	3711	C8	3733	B6	3754	C8	3763	B9	3796	C5	6347	B5	7501	C5	8251
1301	B4	2252	C3	2261	C4	2351	C5	2509	D4	2702	D7	2713	B7	2753	C9	2762	C9	3251	C3	3341	C7	3506	D5	3552	B9	3712	C7	3735	B6	3755	C9	3764	B9	5731	C6	6731	B6	7502	C5	8252
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1304	D8	2254	C4	2341	B5	2502	D7	2511	D5	2704	C7	2715	C7	2755	C9	2765	B7	3253	B4	3343	B5	3508	C4	3701	C8	3721	B9	3737	B7	3757	B9	3766	B9	6341	B5	6733	C6	7731	B6	8254
1305	B6	2255	C4	2342	B5	2503	D6	2513	D3	2705	C8	2731	B6	2756	C9	2766	D9	3254	B4	3344	C6	3509	D4	3702	C7	3722	B9	3738	C6	3758	C8	3767	B8	6342	B5	6734	C6	7732	B6	8302
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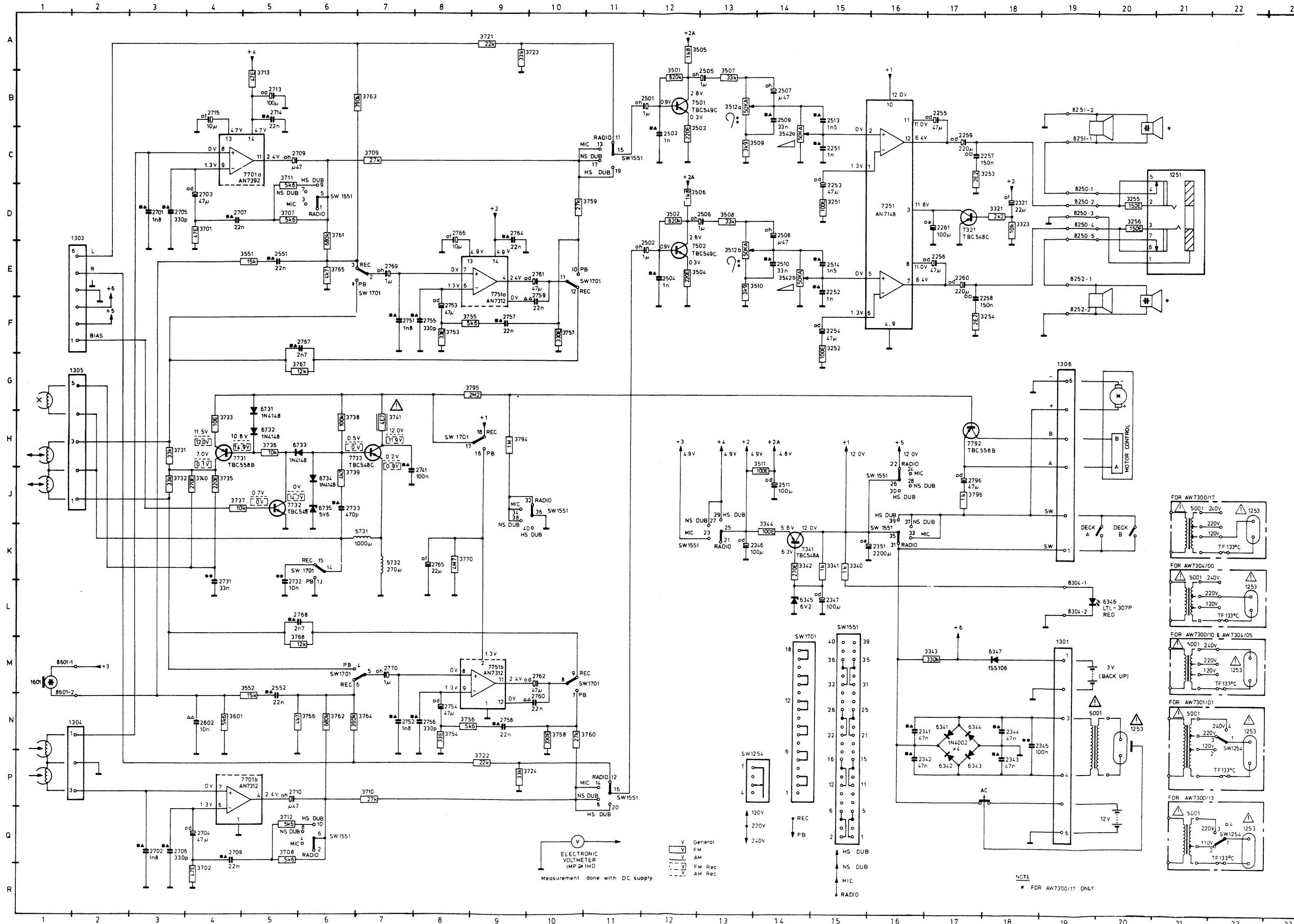
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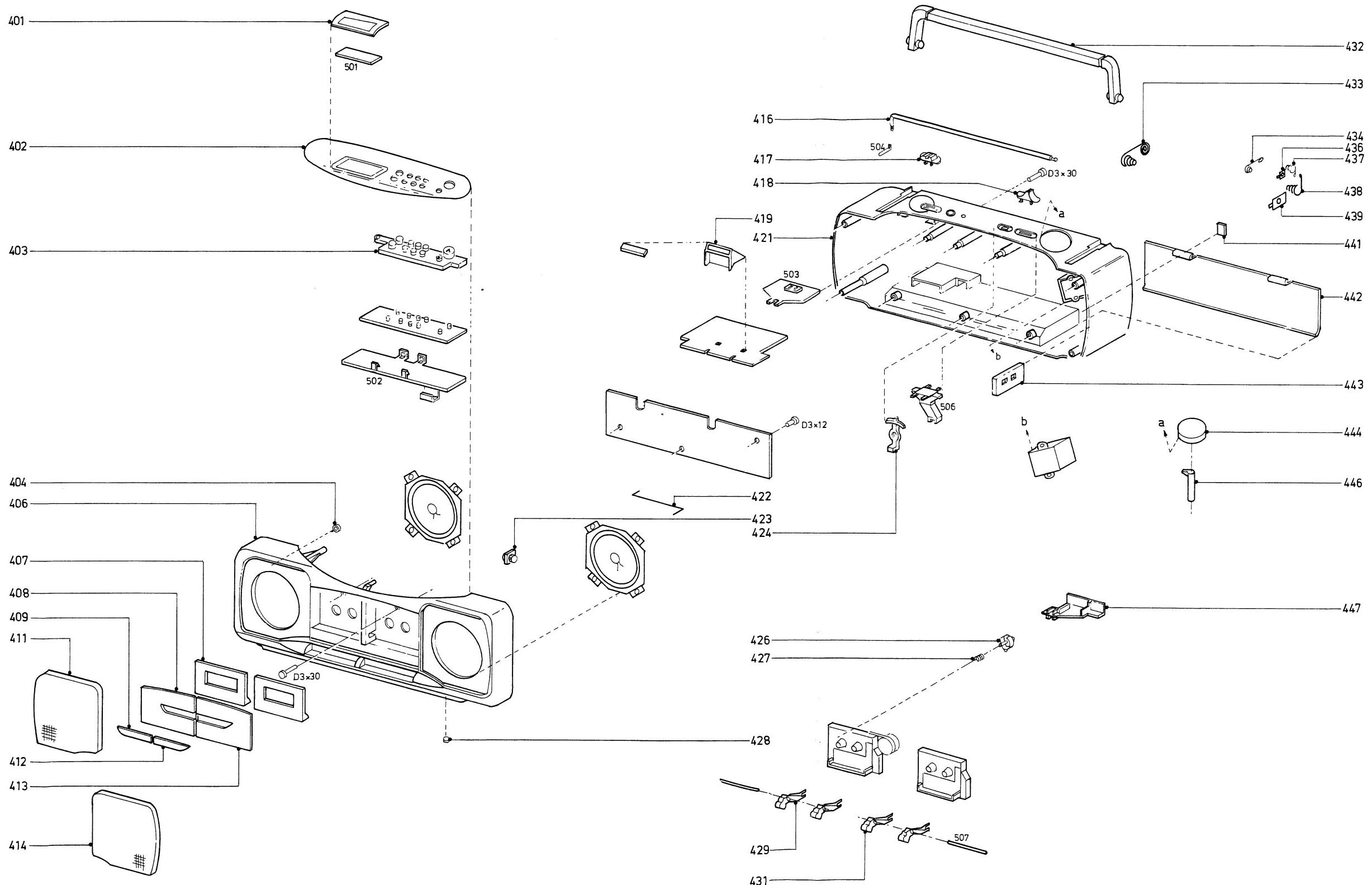
	7701	7751	7251	AM Rec	FM Rec	AM Rec	FM Rec
+1 : 12V	1 : 0V	8 : 0V	1 : 0V	7731	e : 0.3V	e : 0.3V	7733
+2 : 4.9V	2 : -	9 : 1.3V	2 : 1.3V	7732	b : 0.9V	b : 0.9V	7734
+2A : 4.8V	3 : -	10 : -	3 : 0V	7733	c : 2.8V	c : 2.8V	7735
+3 : 4.9V	4 : 2.4V	11 : 2.4V	4 : 2.4V	7734	d : 0V	d : 0V	7736
+4 : 4.9V	5 : -	12 : -	5 : -	7735	e : 0.3V	e : 0.3V	7737
+5 : 12V	6 : 1.3V	13 : 4.7V	6 : 1.3V	7736	f : 0.9V	f : 0.9V	7738
+6 : 3V	7 : 0V	14 : 4.7V	7 : 0V	7737	g : 2.8V	g : 2.8V	7739

2741	C6	2759	C9	2769	C9	3321	D3	3503	C5	3512	D4	3709	D7	3731	B7	3741	B6	3761	B8	3794	C6	6345	C7	7321	D4	7792	B5	8601	D9	9309	C8	9318	B6	9327	C6	9336	D4
2751	C9	2760	C9	2770	C9	3323	D3	3504	C5	3542	D3	3710	C7	3732	B7	3753	B9	3762	B8	3795	C5	6346	B2	7341	C6	8250	A3	9301	B9	9310	C8	9319	C6	9328	C5	9337	C4
2752	C9	2761	C9	2796	B5	3340	B4	3505	D5	3551	B9	3711	C8	3733	B6	3754	C8	3763	B9	3796	C5	6347	B5	7501	C5	8251	A3	9302	C9	9311	C8	9320	D6	9329	C5	9338	C4
2753	C9	2762	C9	3251	C3	3341	C7	3506	D5	3552	B9	3712	C7	3735	B6	3755	C9	3764	B9	5731	C6	6731	B6	7502	C5	8252	A4	9303	D9	9312	C8	9321	D7	9330	C5	9339	C3
2754	C9	2764	D9	3252	C3	3342	C7	3507	C4	3601	B9	3713	D8	3736	B6	3756	C8	3765	B9	5732	C6	6732	B6	7701	C7	8253	C4	9304	B9	9313	D8	9322	D6	9331	C5	9340	D3
2755	C9	2765	B7	3253	B4	3343	B5	3508	C4	3701	C8	3721	B9	3737	B7	3757	B9	3766	B9	6341	B5	6733	C6	7731	B6	8254	C5	9305	B8	9314	D8	9323	D6	9332	C5	9341	D3
2756	C9	2766	D9	3254	B4	3344	C6	3509	D4	3702	C7	3722	B9	3738	C6	3758	C8	3767	B8	6342	B5	6734	C6	7732	B6	8302	D1	9306	B8	9315	C7	9324	D6	9333	B5		
2757	C9	2767	B8	3255	B3	3501	D6	3510	D4	3707	C8	3723	B10	3739	C6	3759	C7	3768	B8	6343	B4	6735	B6	7733	C6	8303	D1	9307	B8	9316	B7	9325	D6	9334	C4		
2758	C8	2768	B8	3256	B3	3502	D5	3511	D5	3708	C7	3724	B10	3740	B6	3760	B8	3770	C8	6344	B4	7251	C4	7751	C9	8304	A4	9308	C8	9317	B7	9326	D5	9335	C4		





1251	C21	2502	E12
1253	N20	2503	C12
1254	P14	2504	E12
1301	M19	2505	A13
1303	D2	2506	D13
1304	N2	2507	B14
1305	G2	2508	D14
1306	G19	2509	B14
1551	L15	2510	E14
1601	M1	2511	J14
1701	L14	2513	B15
2251	C15	2514	E15
2252	E15	2551	E5
2253	D15	2552	M5
2254	F15	2602	N4
2255	B17	2701	D3
2256	E17	2702	Q3
2257	C17	2703	D4
2258	F17	2704	Q4
2259	C17	2705	D3
2260	E17	2706	Q3
2261	D17	2707	D4
2321	D18	2708	Q4
2341	N16	2709	C5
2342	P16	2710	P5
2343	P18	2713	B5
2344	N18	2714	B5
2345	N18	2715	B4
2346	K13	2731	L4
2347	L15	2732	L5
2351	K16	2733	J6
2501	B12	2741	J8
2751	F7	3344	J14
2752	N7	3501	A12
2753	F8	3502	D12
2754	N8	3503	B12
2755	F8	3504	E12
2756	N8	3505	A12
2757	F9	3506	D12
2758	N9	3507	A13
2759	E10	3508	D13
2760	N10	3509	C13
2761	E10	3510	E13
2762	M10	3511	H14
2764	D9	3512a	B13
2765	K8	3512b	E13
2766	D8	3542a	C14
2767	F5	3542b	E14
2768	L5	3551	E5
2769	E7	3552	M5
2770	M7	3601	N4
2796	J17	3701	D4
3251	D15	3702	R4
3252	F15	3707	D5
3253	C17	3708	Q5
3254	F17	3709	C7
3255	D20	3710	P7
3256	D20	3711	C5
3321	D18	3712	Q5
3323	D18	3713	B5
3340	K15	3721	A9
3341	K15	3722	P9
3342	K14	3723	A10
3343	M17	3724	P10
3731	H3	5732	K7
3732	J3	6341	N17
3733	H4	6342	P17
3735	J4	6343	P17
3736	H5	6344	N17
3737	J4	6345	L14
3738	H6	6346	L20
3739	J6	6347	M18
3740	J4	6731	G5
3741	H7	6732	H5
3753	F8	6733	H5
3754	N8	6734	J6
3755	F8	6735	J6
3756	N8	7251	D16
3757	F10	7321	D17
3758	N11	7341	K14
3759	D11	7501	B12
3760	N10	7502	E12
3761	D6	7551a	E9
3762	N6	7551b	M9
3763	B7	7701a	C5
3764	N7	7701b	P5
3765	E6	7731	H4
3766	N6	7732	J5
3767	G5	7733	H6
3768	M5	7792	H17
3770	K8	8250	D19
3794	H9	8251	B19
3795	G8	8252	E19
3796	H17	8304	L19
5001	N19	8601	M1
5731	K7		



401	4822 450 61556
402	4822 423 90151
403	4822 410 60664
404	4822 532 51711
406	4822 423 51024
407	4822 443 62936
408	4822 454 12584
409	4822 450 61557
411	4822 458 30574
412	4822 450 61558
413	4822 454 12585
414	4822 458 30575
416	4822 303 30298
417	4822 411 61691
418	4822 411 61688
419	4822 404 10823
421	4822 421 60128
422	4822 492 70427
423	4822 529 10251
424	4822 411 61689
426	4822 403 30762
427	4822 492 70595
428	4822 462 40379
429	4822 410 60662
431	4822 410 60663
432	4822 498 10376
433	4822 492 51733
434	4822 290 80866
436	4822 290 80606
437	4822 492 52169
438	4822 492 51734
439	4822 290 80313
441	NOT APPLICABLE
442	4822 423 41053
443	4822 403 52826
444	4822 413 51337
446	4822 404 10824
447	4822 404 10822
IFU	4822 736 20629

MISCELLANEOUS			
1101	BANDSWITCH	4822	277 21282
1140	LCD DISPLAY	4822	130 90841
1160	SWITCH-KEY	4822	276 12276
1161	SWITCH-KEY	4822	276 12276
1162	SWITCH-KEY	4822	276 12276
1163	SWITCH-KEY	4822	276 12276
1164	SWITCH-KEY	4822	276 12276
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1166	SWITCH-KEY	4822	276 12276
1167	SWITCH-KEY	4822	276 12276
1168	SWITCH-KEY	4822	276 12276
1169	SWITCH-KEY	4822	276 12276
1251	SOCKET-HDPHONE	4822	267 31014
1253	△ SOCKET-MAINS	4822	265 20287
1255	SPEAKER 80 2W	4822	240 40183
1256	SPEAKER 80 2W	4822	240 40183
1551	MODE SWITCH	4822	277 21198
1601	ELECTRET MIC	4822	242 30121
1701	RECORD SWITCH	4822	277 20594
5109	CERAM FILTER	4822	242 71856
5150	CRYSTAL 4.5MHz	4822	242 72292
CAPACITORS			
2080	CHIP 50V 2.2nF	4822	122 33704
2081	CHIP 50V 2.2nF	4822	122 33704
2082	CHIP 50V 2.2nF	4822	122 33704
2083	CHIP 50V 2.2nF	4822	122 33704
2084	CHIP 50V 2.2nF	4822	122 33704
2085	CHIP 50V 2.2nF	4822	122 33704
2086	CHIP 50V 2.2nF	4822	122 33704
2087	CHIP 50V 2.2nF	4822	122 33704
2088	CHIP 50V 2.2nF	4822	122 33704
2089	CHIP 50V 2.2nF	4822	122 33704
2090	CHIP 50V 2.2nF	4822	122 33704
2091	CHIP 50V 2.2nF	4822	122 33704
2092	CHIP 50V 2.2nF	4822	122 33704
2093	CHIP 50V 2.2nF	4822	122 33704
2094	CHIP 50V 2.2nF	4822	122 33704
2095	CHIP 50V 2.2nF	4822	122 33704
2096	CHIP 50V 2.2nF	4822	122 33704
2097	CHIP 50V 2.2nF	4822	122 33704
2098	CHIP 50V 2.2nF	4822	122 33704
2099	CHIP 50V 2.2nF	4822	122 33704
2101	CHIP 50V 1nF	4822	122 33703
2102	CHIP 50V 1nF	4822	122 33703
2103	CHIP 50V 120pF	4822	122 31766
2105	CHIP 50V 120pF	4822	122 31766
2107	CHIP 50V 150pF	4822	122 33701
2108	TRIM 100V 20pF	4822	125 50355
2109	CHIP 50V 15pF	4822	122 32504
2110	CHIP 50V 10nF	4822	122 33705
2117	TRIM 100V 20pF	4822	125 50355
2118	TRIM 100V 11pF	4822	125 60101
2119	CHIP 50V 1nF	4822	122 33703
2122	PP 160V 590pF	4822	121 43706
2123	PP 160V 390pF	4822	121 43705
2124	CHIP 63V 470pF	4822	122 32882

RESISTORS			
3147	PRESET 20K	4822	100 20589
3512	POTM 50KA X 2	4822	105 11052
3542	POTM 50KA X 2	4822	101 21105
3741	△ NFR25 4.7E PM5T	4822	052 10478
COILS			
5001	△ TRANSFO, MAINS	4822	146 30886
5101	COIL 0.22uH	4822	157 53192
5102	SW ANT COIL	4822	157 53883
5103	MW-LW ANT ASSY	4822	158 60593
5105	COIL-FM RF	4822	156 30947
5106	COIL-FM RF	4822	156 30947
5107	SW OSC COIL BLK	4822	157 53884
5108	MW OSC COIL BR	4822	157 53022
5111	AM IFT COIL	4822	156 10688
5112	AM IFT COIL YW	4822	156 10726
5114	AM IFT COIL YW	4822	156 10726
5170	COIL 2.2uH	4822	157 60146
5731	IND. 1000uH	4822	157 53792
5732	IND. 270uH	4822	157 52991
SEMICONDUCTORS			
6101	1N4148	4822	130 30621
6102	1N4148	4822	130 30621
6111	KV1260T	4822	130 81788
6112	BB304	4822	130 81091
6113	BB304	4822	130 81091
6122	1N4148	4822	130 30621
6150	1N4148	4822	130 30621

6151	1N4148	4822	130 30621
6152	1N4148	4822	130 30621
6153	1N4148	4822	130 30621
6154	1N4148	4822	130 30621
6160	1N4148	4822	130 30621
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6162	1N4148	4822	130 30621
6170	1N4148	4822	130 30621
6171	1N4148	4822	130 30621
6172	1N4148	4822	130 30621
6173	1N4148	4822	130 30621
6174	BZX79C5V6	4822	130 34173
6175	1N4148	4822	130 30621
6176	BZX79B5V6	4822	130 34173
6177	1N4148	4822	130 30621
6178	1N4148	4822	130 30621
6341	1N4002	5322	130 30684
6342	1N4002	5322	130 30684
6343	1N4002	5322	130 30684
6344	1N4002	5322	130 30684
6345	BZX79C6V2	4822	130 34167
6346	LTL-307P	4822	130 82029
6347	1SS106	4822	130 32574
6731	1N4148	4822	130 30621
6732	1N4148	4822	130 30621
6733	1N4148	4822	130 30621
6734	1N4148	4822	130 30621
6735	BZX79C5V6	4822	130 34173
7101	CXA1238MS	4822	209 73851
7102	TBC548C	4822	130 44196
7103	2SC1047C	4822	130 60163
7104	2SC1047C	4822	130 60163
7120	2SA838B	4822	130 60093
7121	2SC1047C	4822	130 60163
7122	2SC1047C	4822	130 60163
7123	TBC548C	4822	130 44196
7130	CD4007CM	4822	209 61116
7141	TBC548C	4822	130 44196
7142	TBC548C	4822	130 44196
7143	TBC558B	4822	130 44196
7150	UPD1713AG-622	4822	209 62454
7171	TBC558B	4822	130 44197
7172	TBC548C	4822	130 44196
7173	TBC548C	4822	130 44196
7251	AN7148	4822	209 70998
7321	TBC548B	4822	130 40937
7341	TBC548A	4822	130 40948
7501	TBC549C	4822	130 44246
7502	TBC549C	4822	130 44246
7701	AN7312	4822	209 70997
7731	TBC558B	4822	130 44197
7732	TBC548	4822	130 40938
7733	TBC548C	4822	130 44196
7751	AN7312	4822	209 70997
7792	TBC558B	4822	130 44197